

ABSTRACT

A system detects an obstruction in the path of a vehicle openable member, such as a window. The system comprises a direct detector of the obstruction and an indirect detector of the obstruction. The indirect detector detects force exerted by the obstruction on the openable member, while the direct detector uses an image of the opening to detect an obstruction. The indirect detector provides the direct detector with openable member position information, which is used in the direct detector to refine the detection process and increase its reliability. The indirect detector can also interrupt the movement of the openable member if the direct detector malfunctions.